State 6-21 #1, Well was drilled on Lieu of Federal 6-21 #1, Location - API # Transferred to State well -

FILE NOTATIONS

Entered in NID File .....✓.....
Location Map Pinned .....✓.....
Card Indexed .....✓.....

Checked by Chief .....✓.....
Approval Letter .....✓.....
Disapproval Letter .....

COMPLETION DATA:
Date Well Completed 8-17-74

Location Inspected .....

Bond released
State or Fee Land .....

OW..... WW..... TA.....
GW..... OS..... PA.....✓

LOGS FILED

Driller's Log.....✓.....
Electric Logs (No.) .....✓.....
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... MI-L..... Sonic.....
CBLog..... CCLog..... Others.....

REVISED

REVISED

Form DOGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS

5. Lease Designation and Serial No.
29065A

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name

1a. Type of Work
DRILL XX DEEPEN ☐ PLUG BACK ☐

7. Unit Agreement Name

b. Type of Well
Oil Well ☐ Gas Well XX Other Single Zone XX Multiple Zone ☐

8. Farm or Lease Name
GRN State

2. Name of Operator
Kewanee Oil Company

9. Well No.
1

3. Address of Operator
P. O. Box 2239 - Tulsa, Oklahoma 74101

10. Field and Pool, or Wildcat
Wildcat

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface
1980' FSL 660' FWL NW SW SEC. 17 C NW SW
At proposed prod. zone
(1445 FNL & 1279 FWL) (CNW)

11. Sec., T., R., M., or Blk. and Survey or Area
Sec. 17-20S-16E

14. Distance in miles and direction from nearest town or post office*
Approximately 5 miles north of Green River, Utah

12. County or Parrish
Emery

13. State
Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)	16. No. of acres in lease	17. No. of acres assigned to this well
660	636.01	40

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.	19. Proposed depth	20. Rotary or cable tools
First Well	3500	Rotary

21. Elevations (Show whether DF, RT, GR, etc.)
Surveyor plat to be furnished

22. Approx. date work will start*
June 20, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
13 3/4	8 5/8"	32	300	Circulated
7 7/8	4 1/2	10.5	3500	200

Objective Horizons: Dakota, Morrison, Saltwash, Entrada

Drill Stem Tests: Two

Electric Logs: IES FDC SLC

Perforate, acidize or fracture

Will probably use air to circulate out drill cuttings

Install 10" 900 series Double Hydraulic Ram Type Blowout Preventors

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION
DATE JUN 19 1974
BY Cleon B. Feight

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed M. M. Sharp Title Chief Clerk Date June 11, 1974

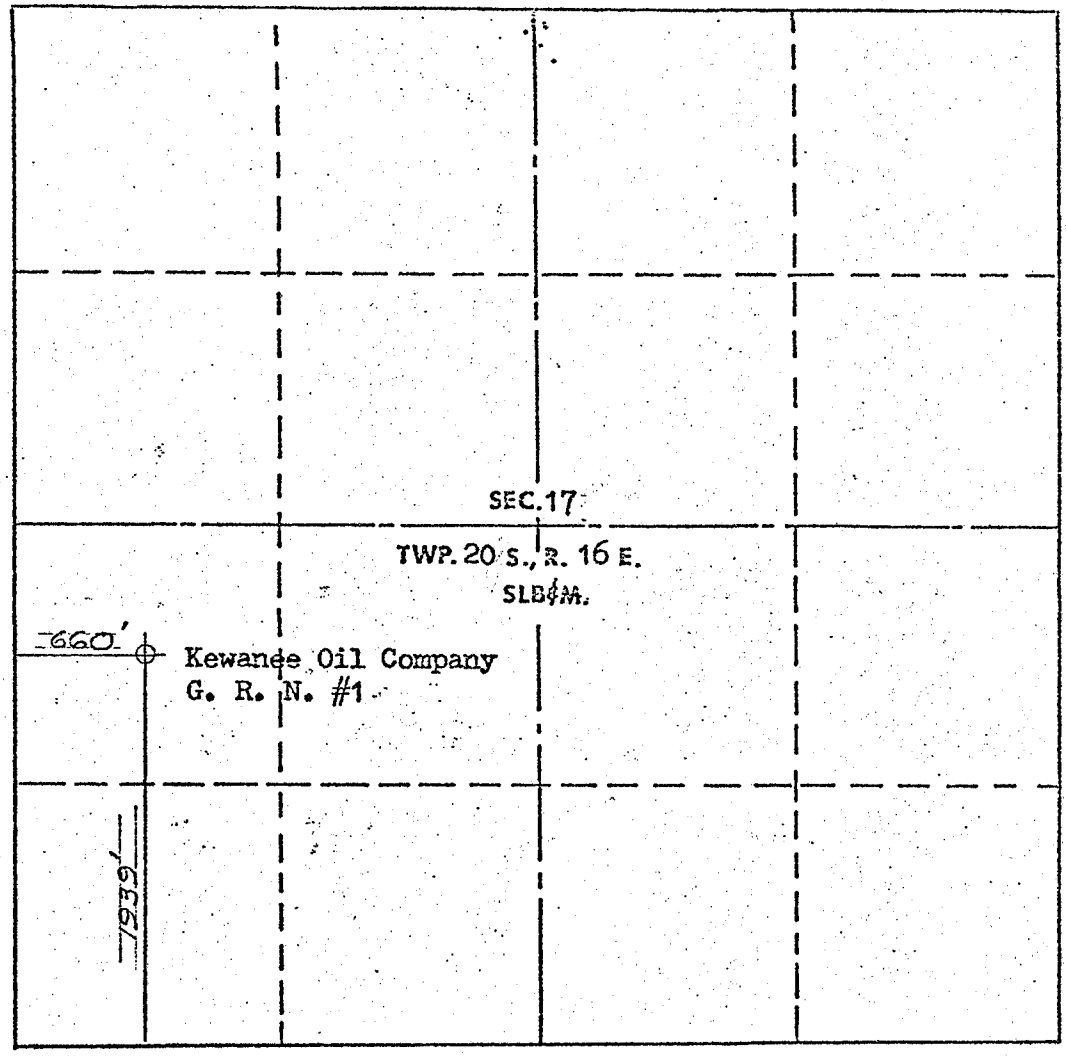
(This space for Federal or State office use)

Permit No. 43-015-30021 Approval Date

Approved by Title Date

Conditions of approval, if any:

*See Instructions On Reverse Side



SURVEYORS CERTIFICATE

I, GEORGE H. NEWELL A REGISTERED LAND SURVEYOR AS PRESCRIBED BY THE LAWS OF THE STATE OF UTAH, HOLDING LICENSE NO. 1770, CERTIFY THAT THIS PLAT OF:

KEWANEE OIL COMPANY G. R. N. NO. 1

AND MORE SPECIFICALLY DESCRIBED AS FOLLOWS:

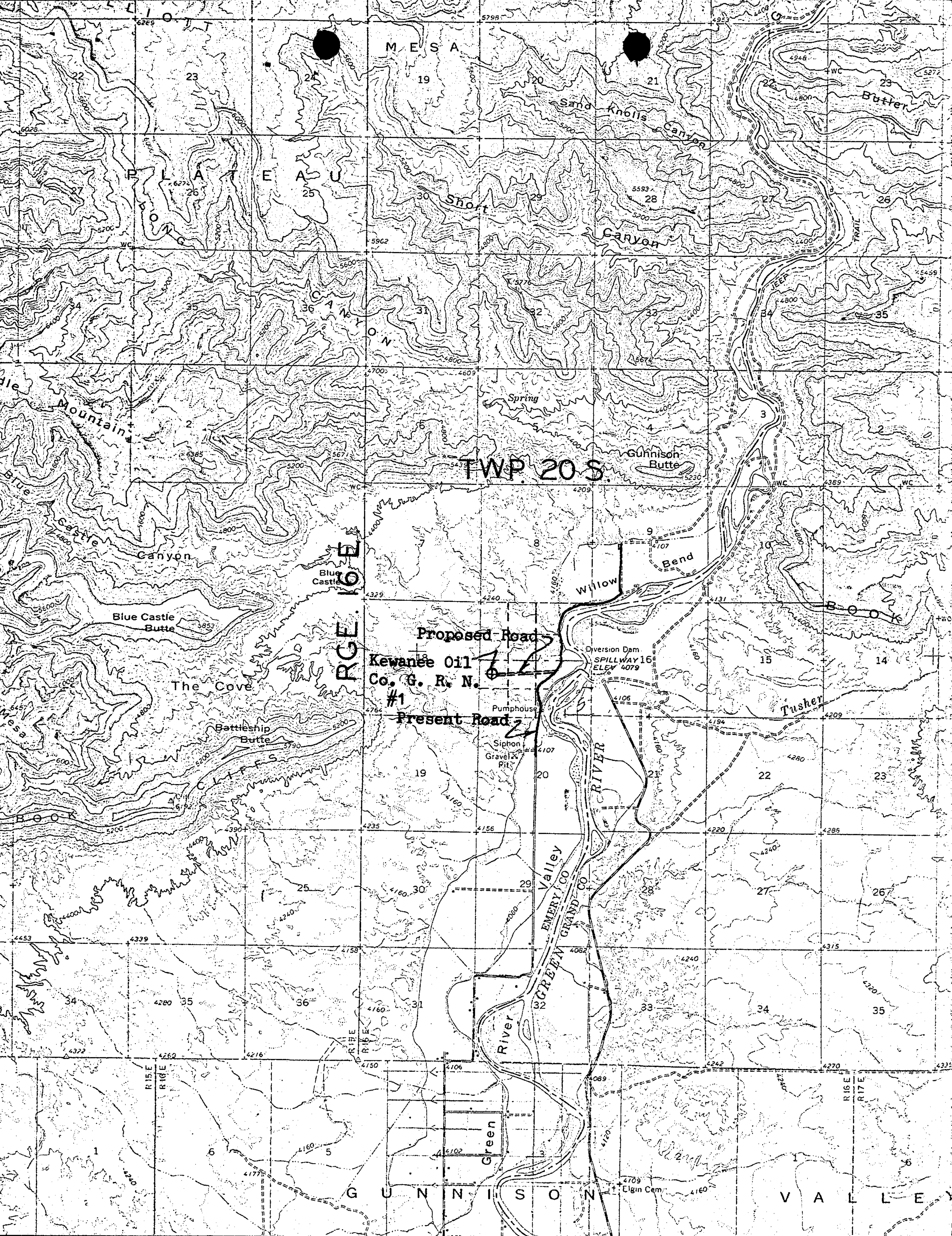
1939 feet from the South line and 660 feet from the West line of Section 17, T. 20 S., R. 16 E., SLB&M. Ground line elevation 4197

IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE June 17, 1974

George H. Newell

GEORGE H. NEWELL



MESA
PLATEAU
LONG CANYON
Sand Knolls Canyon
Short Canyon
Butler
JEEP TRAIL
Spring
Gunnison Butte
TWP. 20 S.
Mountain
Blue Castle Canyon
RGE. 16 E.
Blue Castle
Blue Castle Butte
The Cove
Battleship Butte
BOOK CLIFFS
Willow Bend
BOOK
Proposed Road
Kewanee Oil Co. G. R. N. #1
Present Road
Diversion Dam
SPILLWAY ELEV 4079
Pumphouse
Siphon
Gravel Pit
Tusher
GREEN RIVER
Valley
EMERY CO
GRAND CO
River
Green
GUNNISON VALLEY
Elgin Cem

June 17, 1974

Kewanee Oil Company
P. O. Box 2239
Tulsa, Oklohoma 74101

Attn: Joe Kenworthy

Dear Joe,

As per your request, I have made the location of Kewanee Oil Company's G. R. N. #1 well. Enclosed find 5 copies of the certificate and map. I have mailed one of these copies to the Utah Oil and Gas Commission as you requested.

Sincerely,

George H. Newell

cc: Utah Oil and Gas Commission

GEORGE H. NEWELL
REGISTERED LAND SURVEYOR
P. O. BOX 356
MOAB, UTAH 84532

TELEPHONE 253-0661

June 26, 1974

Kewanee Oil Company
P. O. Box 2239
Tulsa, Oklohoma

Attn: Joe Kenworthy

Dear Joe,

Attached hereto is corrected plat and certificate of Kewannee Oil Company's G. R. N. #1.

You will note that the corrected location is T. 20 S., R. 16 E., SLB&M., instead of T. 21 S., R. 16 E., as shown on the original plat and certificate.

Sincerely,

George H. Newell

George H. Newell

cc: Utah Oil and Gas Commission.

Me
P I

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator ~~[illegible]~~ Kewanee Oil Co   Representative Don Quigley. Bob Harron

Well No. ~~Fed~~ GRN #1 Located SW ¼ NW ¼ Sec. 17 Twp. 20S Range 16E

Lease No. U 23958 A Field W/C Emery Co. State Utah

Unit Name and Required Depth ______ Base of fresh water sands ______

T.D. 3553 Size hold and Fill per Sack ____" ____' Mud Weight and Top 9 3 #/Gal. ____'

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements From	To	Sacks Cement
8 5/8	328	Cmt	to sur	375-80		Set 25 SX
						Reg marker @ sur w/ 10 SK.

Formation	Top	Base	Shows	From	To	Sacks Cement
Entrada	3490					45 SX TD up
Curtis	3252					
Summerville	3154					
Saltwash	2810			2950		Set 70 SX plug
Morrison	2714					
Dakota	2186			2250		Set 25 SX
Ferron	1382			1450		Set 25 SX

Remarks

DST's, lost circulation zones, water zones, etc. Air drld to about 2700' Converted to drlg mud due to wtr below 2700' (Morrison) (Plugging program provided by State Agency - Mr. Paul Burchell) - Waived Sundry Notice of Intent to Abd. Subs Report Required -

Approved by [signature] Date 8/17/74 Time ______ A.M. P.M.

cc: BLM, Price
Utah Oil Conser Comm.
~~OGCS, NRMA, Casper.~~

CONDITIONS OF APPROVAL FOR WELL ABANDONMENT

Company Kewanee Oil Co Location SW/4NW/4 Sec 17-20S-16E

Well No. Fed GRN #1 Lease No. U 23958-A

Emery Co., Utah

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

1. This office should be notified sufficiently in advance of actual plugging work so that a representative may witness the operation if time and circumstances permit.

2. Upon completion of approved plugging, erect the regulation marker and clean up the location. The marker should not be less than 4 inches in diameter and extend approximately 4 feet above general ground level. Heap up the dirt around the base of the marker about 18 inches to take care of any settling of the cellar. The top of the marker must be closed or capped.

3. The following minimum information shall be permanently placed on the marker with a plate, cap or beaded on with a welding torch:

   "Well name and number, location by ¼¼ section, township and range."

4. Within 15 days after well bore plugging operations are completed, form 9-331 (Subsequent Report of Abandonment) must be filed showing location of plugs, amount of cement in each, amount of casing left in hole, and status of surface restoration. If a temporary delay in removal of equipment or surface cleanup is deemed necessary and acceptable to this office, so note on this report and notify this office when such work has been completed to your satisfaction. This final abandonment report will not be approved until a physical inspection by this office and the surface management agency finds the well site in satisfactory condition.

5. If not previously filed, submit in duplicate Well Completion or Recompletion Report and Log (form 9-330), well history, electric logs, and other surveys, and if taken, core analysis and water analysis. These reports must also be filed within 15 days after completion of plugging operations.

6. You or your authorized representative should inspect the abandoned location prior to notification to this office that it is ready for inspection, and note especially:

   (a) That the regulation dry-hole marker bears the correct legend as required in item 3.

   (b) That rathole and mousehole are filled, not just bridged, and pits are filled and leveled.

   (c) That all material and junk are gone. This includes deadmen protruding above the level ground surface.

   (d) That reseeding or other required restoration work has been completed.

SURFACE RESTORATION REQUIREMENTS:

A. Clean up and remove all foreign material.
B. Disc in all oil spills.
C. Smooth location as neat as possible and contour it as near as possible to its original contour.
D. Remove all unnecessary roads to this location.
E. Reseed location, all removed roads, and all unvegetated spots caused by the oil and gas operations. Reseed on the contour as directed by the BLM, Price Utah. He will determine the reseeding period, rate, species and whether fertilizer or mulching will be required. (Ltr BLM, dtd 7/19/74)

Haw[illegible]nee — GRN [illegible] State #1 PJ

sec 17 – T 20S 16E

Bob Warren + Don Quiggadz

T.D. 3553

Surface Pipe – 378' of 8 5/8"

Entrada – 3490
Curtis – 3252
Summerville – 3154
Salt Wash – 2810
Morrison – 2714
Dakota – 2186
Ferron – 1382

(1) 45 sx
3550 up – Entrada

(2) 2950 – 70 sx – Morrison (water)
2700 – air then mud.

(3) 2250 – 25 sx – Dakota

(4) 1450 – 25 sx – Ferron

(5) 375 – 25 sx into surface pipe

(6) 10 sx in surface/marker – gel mud ≈ 53 vis.
9.3 gal.

Call Ed Gwynn
USGS
8/19/74

8/17/74

PMB

Form OGCC-1 b

PI PWB

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

2. NAME OF OPERATOR
Kewanee Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 2239 - Tulsa, Oklahoma 74101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface
1939' FSL 660' FWL NW SW SEC. 17

5. LEASE DESIGNATION AND SERIAL NO.
29065 A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
GRN State

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 17-20S-16E

14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH	13. STATE
43-015-30021	4197' GR	Emery	Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	XX
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other)			☐	(Other)			☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Well spudded 8-3-74. Drilled to 334' and cemented 8 5/8 casing at 330' w/240 sks. circulated to surface. Drilled to 3553' TD without encountering any commercial shows. Well plugged as follows, as provided by Mr. Paul W. Burchell, Chief Petroleum Engineer. Intervall between cement plugs filled with heavy mud-laden fluid.

45 sks cement	@ 3553' TD
70 sks cement	@ 2950'
25 sks cement	@ 2250'
25 sks cement	@ 1450'
25 sks cement	@ 380' into bottom of 8 5/8" csg
10 sks cement	@ surface

Regulation marker installed. Plugging completed August 17, 1974.

18. I hereby certify that the foregoing is true and correct

SIGNED M. V. Sharp TITLE Chief Clerk DATE August 26, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

KEWANEE OIL COMPANY
POST OFFICE BOX 2239
TULSA, OKLAHOMA 74101

September 23, 1974

Mr. Cleon Feight
State of Utah
Department of Natural Resources
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Dear Sir:

Please find enclosed one copy of the Drilling ~~History~~ and Geologic Report for the Kewanee Oil Company #1 State-GRN, NW of the SW, Section 17, T20S, R16E, S. L. M., Emery County, Utah.

Yours truly,

Jimmy R. Kirk

Jimmy R. Kirk
Division Geologist

JRK:jd
Enc.

DRILLING HISTORY
AND
GEOLOGIC REPORT
ON
KEWANEE OIL COMPANY
#1 STATE - GRN WELL
EMERY COUNTY, UTAH

By

W. Don Quigley
Consulting Geologist
Salt Lake City, Utah

September 20, 1974

DRILLING HISTORY
OF
KEWANEE OIL COMPANY
#1 STATE - GRN WELL
EMERY COUNTY, UTAH

Operator: Kewanee Oil Company
P.O. Box 2239, Tulsa, Oklahoma 74101

Contractor: Willard Pease Drilling Co.
P.O. Box 548, Grand Junction, Colorado 81501

Location: NW. SW. Section 17, T 20S., R 16E., S.L.M., Emery County, Utah (1939' fr. S-line and 660' fr. W-line)

Elevations: Grd.: 4197'; K.B.: 4207'

Spudded-in: August 3, 1974

Surface Casing: 328', 8⅝, 24#, J-55, cemented w/240 sk.

Finished Drilling: August 15, 1974

Total Depth: 3553'

Pay Zones: none

Production Casing: none

Plugged and Abandoned: August 17, 1974

Drilling History

Aug. 1-2: Moving-in rig and rigging up.

Aug. 3: Finished rigging up. Drilled rat hole. Drilled mouse hole. Began drilling surface hole with mud. Drilled 12¼" hole 0' to 103'.

Aug. 4: Drilled 103' to 344' (241'). Bit #1 (Reed Y-12) made 344' (0' to 344') in 21¾ hrs. Drilled at

avg. rate of about 16 ft/hr. Survey at 310' was ¾°. Ran 8 jts. of 8⅝", 24#, J-55 casing and landed at 328' (measured from ground level), and cemented with 240 sks cement with returns to surface. Plug down at 10 P.M. Waiting on cement to set.

Aug. 5: Drilled 344' to 705' (361'). Waiting on cement to set until 4 A.M. and began nippling up. Started in hole with drill collars and 7⅞" bit at 4 P.M. Dried-up hole and drilled out cement plug with air. Began drilling ahead with 7⅞" bit and using air for circulation at 7 P.M.

Aug. 6: Drilled 705' to 1919' (1214'). Drilling ahead with air. Drilling at avg. rate of 60 ft/hr. and dusting good in Mancos shale. Surveys at 841' was 1¾°; at 1338' was 2°. Lit flare at about 1800' and had 5 ft. gas flare on each connection for 5 secs. thereafter. Estimate top of Ferron member about 1350'. Had a lt. brn. f.g. ss. w/sub rounded grains at 1360' to 1390'. Ss. had slight stain and good cut and fluorescence. This sand was tight but could have some gas in it. Had a lt. brn. sandy limestone with oil stain from 1400' to 1440'.

Aug. 7: Drilled 1919' to 2212' (293'). Both air compressors went out at 8 A.M. at a depth of 2212'. Had to wait rest of day for replacement compressors. Survey at 1995' was 1½°. Encountered top of Dakota sandstone at about 2175', but had a reverse drilling break at 2162'. Sandstone was f.g. unconsolidated, qtz. with rounded to sub-rounded grains and gave a good cut with lt. blue fluorescence. Had a 15 ft. gas flare for 30 secs. Gas flowed continuously out blewie-line while waiting for compressors but would not build up pressure. (Must be leak or fracture in formation.) Burned with 7' to 10' flare.

Had good sand from 2175' to 2200'.

Aug. 8: Drilled 2212' to 2557' (345'). Waited on air compressors until 7 A.M. and then had to replace a motor on one of the replacement compressors. Started drilling ahead at 8 P.M. Survey at 2450' was 1°. Drilling ahead at avg. rate of 55 ft/hr. Estimate top of Cedar Mountain formation at about 2370'. Found no fluid or increase in air pressure when drilling was resumed after 36 hr. shut-down period. Had a good gas flare, 15 ft., for 20 secs. when air was commenced. Encountered another ss. at 2440' to 2455' which was v.f.g. but was unconsolidated and had a slight cut. (Rounded grains.) Gas volume increased slightly. Had a 20 ft. flare for 35 seconds on a connection at 2494' after a 40 minute delay. Had a brief gas flare, about 6 ft. flare for 3 secs. at 2484' while drilling. Survey at 2450' was 1°.

Aug. 9: Drilled 2557' to 2812' (255'). Encountered a sand at 2695' which was f.g., calc., rd'd grns which may have had some gas, but graded into a conglomerate at 2705' which was wet. Returns stopped, so began mist-drilling with air-soap-water. Hole began caving badly and was tight on connections at 2785'; and gradually got worse, so at 2812' decided to come out of hole and mix mud in preparation to mudding-up. Bit #2 (Reed F52-J) made 2468' (344' to 2812') in 52½ hrs. Drilled at an avg. rate of 48 ft/hr. The water sand (2695'-2710') was probably the Buckhorn sand at the base of the Cedar Mountain. Estimate top of Morrison formation at 2710'. Started back in hole with Bit #3 at 10 P.M. Had to clean out bridges and ream last 400 ft. Found water in hole at 500 ft. below surface, but hole was still flaring gas until mud was pumped in.

Aug. 10: Drilled 2812' to 2897' (85'). Got hole cleaned out and reamed to bottom by noon and began drilling ahead with mud. Drilling at rate of 6 ft/hr. Hit first sand in Morrison at 2828' to 2846'; sand was m.g. white to clear, with angular grains - no shows.

Aug. 11: Drilled 2897' to 3028' (131'). Made rd-trip at 2963' for Bit #4. Bit #3 (HTC-OSC1-G) made 151' (2812' to 2963') in 21 hours. Drilled at avg. rate of 7½ ft/hr. First seven stands (420 ft.) pulled hard and slow; rest were free. Estimate top of Morrison - Salt Wash section at 2900'. Top sand (2900' to 2920') was clear, fine to medium grained, slightly calcareous, with rounded grains. Had no shows of hydrocarbons. Second sand was at 2924' to 2955' and was like the first sand and had no shows. Thin sands were present from 2960' to 3030' and were f.g. to m.g. friable, slightly calcareous ss. w/sub-ang. grns. and no shows.

Aug. 12: Drilled 3028' to 3248' (220'). Sands were thicker and more continuous from 3040' to 3100' and were f.g. to m.g., clr., calc. ss. w/rd'd to ang. grns. Had some streaks of blk. resid. oil. No cut or fluor. Mud appears gassy. Drilling at avg. rate of 10 to 12 ft/hr.

Aug. 13: Drilled 3248' to 3320' (72'). Made rd. trip at 3308' for Bit #5. Bit #4 (Bit #2-rerun) made 325' in 44 hrs. Drilled at avg. rate of 7½ ft/hr. with mud. Had a marked decrease in the drilling rate at 3264'. Rate decreased from about 8 ft/hr. to 4 ft/hr. This could be near the top of the Summerville formation. Samples indicate a change to a green-gry. glauc. v.f.g. mica. ss. and gry-grn. waxy shale. Survey at 3270' was 1¼°.

Aug. 14: Drilled 3320' to 3453' (133'). Encountered a white to clear, friable, fine to medium grained ss. w rd'd grains at 3320'. Had no shows. Drilled hard and slow. Sandstone changed to a tan to wh. v.f.g., tight ss. w well rd'd grains and orange specks at 3350'. This is characteristic of the Entrada sandstone. Drilling rate increased slightly at 3410' and some reddish to orange ss. w/rd'd grains began showing in samples at 3420'. This could be the top of the Curtis formation.

Aug. 15: Drilled 3453' to 3553' (100'). Had an increase in drilling rate at 3482'. Rate increased from 5 ft/hr. to 9 ft/hr. This is probable top of Entrada formation. Samples show a reddish to pink, fine grained to medium grained well sorted, very friable ss. w/black and orange specks. Decided to log hole at this depth (3553'). Called Schlumberger to run logs. Made short-trip (Pulled 20 stds) and went back to bottom. Had to ream and drill out bridges for 6½ hours. Circulated hole for 2 more hours. Came out of hole to log. Bit #5 (HTC-J44) made 245' (3308' to 3553') in 37 hours. Drilled at an avg. rate of 6½ ft/hr.

Aug. 16: Went in hole with Dual Induction - Laterolog and hit bridge at 2566', so logged hole from 2566' to bottom of surface casing (328'). Went back in hole with drill pipe and bit to condition hole and drill out bridges. Reamed for 4 hours and circulated for 2½ hrs. Came out to run logs. Ran in density - neutron tool and stuck tool at 2650'. Finally pulled loose and logged hole from 2640' to 2000'. Laid down drill collars and went in hole with drill pipe and circulated to bottom. Ran gamma - neutron tool inside drill pipe and logged hole from 3546' to 2500'.

Aug. 17: Finished logging. Decided to plug and abandon hole. Call Halliburton cementers and placed cement plugs in hole as follows:

Plug #1: 3550' to 3350' - 45 sacks
Across Entrada formation.

Plug #2: 2650' to 2950' - 70 sacks
Across Morrison and Cedar Mountain sands.

Plug #3: 2250' to 2150' - 25 sacks
Across Dakota formation.

Plug #4: 1450' to 1350' - 25 sacks
Across Ferron sand.

Plug #5: 375' to 275' - 25 sacks
Across bottom of surface casing.

Plug #6: In top of surface casing - 5 sacks with well marker.

Laid down drill pipe and prepared to rig down.

GEOLOGIC REPORT
ON
KEWANEE OIL COMPANY
#1 STATE - GRN WELL
EMERY COUNTY, UTAH

General Geologic Conditions

The Kewanee Oil Company #1 State - Grn well was located about six miles north of the town of Green River and about 3/4 mile west of the river. Geologically, the well was located on the west flank of the Green River nose which trends north-south and plunges northward from the Little Grand Fault which trends east-west and is located about four miles south of the town of Green River. The Green River structural nose plunges about 2° northward and its highest point and closure is against the Little Grand Fault which has a vertical displacement of about 800 feet.

The subject well was initially located about ½ mile to the north; but due to restrictions and requirements imposed by the Bureau of Land Management, the company decided that these problems could be circumvented by moving the well onto state lands. Unfortunately, this move placed the well very close to a northeast trending fault which has a vertical displacement of about 150 feet. The north-west side of the fault on which the well was located is the probable downthrown side of the fault.

Regionally, the well is located at the northern edge of the Paradox Basin and near the southern rim of the Uinta Basin; and thus was near the mythical hingeline between the two basins. The area, in general, is highly favorable for the generation and accumulation of hydrocarbons and has been of intense interest to geologists and oil companies for years. This is due to the interfingering and overlap of various formations as well as lithological facies changes within the formations, which are known to exist in the general area.

The region should have been the site of depositional shelf environments during much of Pennsylvanian, Permian, and lower Triassic time. It is also near the base of the Uncompahgre Fault which trends north-westerly about ten miles north of the well site. This fault has several thousand feet of displacement and bounds the southern edge of the Uncompahgre Uplift. The uplift has had several rejuvenations thru-out geologic time, but its greatest upward movement probably took place in late Pennsylvanian to early Permian time. This gave rise to thick masses of sediments being deposited at the base of the fault and spreading southward into the Paradox Basin. The Uinta Basin to the north began sinking in late Permian time and continued to subside thru Tertiary time. The Kaibab formation of late Permian age is the first formation deposited over the Uncompahgre Uplift at its southern edge. Thus the structural pattern of the area, with the repeated movements, could be quite complicated; but could also be highly favorable to the receipt and entrapment of hydrocarbons.

Drilling History

A complete daily drilling history of the #1 State - Grn well precedes this section of the report.

In general, there was little difficulty in the drilling of the well. The well was drilled with air down to a depth of 2705' at which point water entered the hole and it was necessary to begin air-mist drilling with soap and water. This method was used down to a depth of 2812'; and because the hole was caving badly and filling-up on connections it was necessary to convert to mud. The rest of the hole was drilled with mud, and there was continuing trouble with caving; in fact, it was not possible to get the desired logging tools to the bottom of the hole to properly log the hole. A gamma-neutron sonde was finally run inside the drill pipe to log the bottom of the hole.

The Cedar Mountain formation, from 2360' to 2710', was the section which gave all the trouble. This is not unusual; in fact, invariably this section has so much bentonitic shale that it continues to heave and cave when once drilled with air and then soaked with water and mud.

While drilling with air, gas was observed in the air stream at 1800'; but this was the first time a flare was placed at the end of the blewie line, so the gas was probably first encountered up the hole somewhere. A 5 ft. flare was observed on most connections below 1800'. Additional gas was obtained in the Dakota at 2162' and burned with a 15 ft. flare initially. Gas burned continuously out the blewie line with a 7 ft. flare with the air shut-off; but it would not build up pressure when shut-in. There must have been some leaks or fractures in the formation which took the gas. Further gas was obtained in sands at 2440'-2455', at 2484' to 2494', and at 2695' to 2700', but prolonged open hole tests failed to reveal any measurable volume of gas.

Stratigraphy of Well

The well was spudded near the upper part of the Mancos formation. The buttes and cliffs in the surrounding area are capped by Mesaverde sediments. Typical dark gray to black, marine, calcareous shales with thin beds of argillaceous limestone were drilled down to a depth of about 1350 feet.

The top of the Ferron sand member was encountered at 1360' by samples and 1380' by electric logs. This sand was fine-grained, tight, with sub-rounded grains, had some oil staining, and gave a good cut with fluorescence. It could have given-up some gas and may have been the origin of the gas first observed at 1800'. There was only one sand in the Ferron and it was about 20 ft. thick.

The Dakota formation at 2190' to 2360' had one thick sand at the top (2190' to 2218') which was very-fine-grained,

bentonitic, with rounded to sub-rounded grains, had scattered fluorescence and gave a good cut. This sand gave up a small amount of gas (15 ft. flare for 30 secs. initially) but would not build up pressure. The electric logs indicate a porosity of less than 8%.

The Cedar Mountain formation at 2360' to 2710' contained thick beds of bentonite and bentonitic shale with interbedded sands and siltstone. A sand at 2440' to 2455' gave a slight cut and may have given up a small amount of gas; but it was very-fine-grained with chert fragments and appeared very tight. The electric logs indicated a porosity of less than 6%. A conglomeratic, fragmental, tight sand at 2520' to 2533' did not have any shows. A third sand (probably Buckhorn equivalent) at the base of the Cedar Mountain from 2690' to 2710' had a little gas at the top of the sand, but contained water in the lower part. The gamma-neutron log clearly shows this separation. The sand was fine-grained at the top and conglomeratic at the base, very bentonitic, contained chert fragments and pebbles. The upper part gave a slight cut.

The Morrison formation at 2710' to 3250' was thin, indicating that during Morrison time the area was near or on a positive feature. The Brushy Basin section of the Morrison was only 200 feet thick, and the Salt Wash sand section was about 200 feet thick. This latter section contained several different, fairly thick sandstone beds with limited porosity. The sands from 3040' to 3100' were fine to medium grained, had fair porosity, and had some brown oil stain and streaks of black residual oil. The mud appeared gassy at this point but may have been due to chemicals in the mud. A drill-stem-test of this section was considered, but the condition of the hole was such that testing would have been a great risk and would have been unwise. It was felt that the electric logs would help to evaluate this zone. Unfortunately, it was not possible to get a complete set of logs thru this zone.

The Summerville formation at 3252' to 3410' contained red, green, and purple, siliceous shale and siltstone. It was somewhat thinner in the subject well than in wells to the west. This could also suggest proximity to a positive area during Summerville time.

The Curtis formation top was difficult to discern in either the samples or on the logs. It is believed that the hole intersected a fault zone at 3410' - just at the point when the Curtis formation should have been reached - and a mixture of Curtis-type sediments, and tan to white, well rounded sandstone with orange specks, typical of the Entrada, were drilled at the same time. Fairly clean Entrada sand was not encountered until about 3490'. It is therefore quite probable that the fault zone located near the well site as mentioned above was crossed at this point and most of the Curtis section was cut out of the well.

Good Entrada sandstone was encountered at 3490' to 3500'. The drilling rate increased markedly at 3482' and this could have been the top. There were no shows in the sand and it appeared wet.

The formations with their tops, thicknesses, and datum points which were encountered in the #1 State - Grn well, as determined from the electric logs are as follows:

Formation	Depth to top	Thickness	Datum
Mancos (Upper)	Surface	1380'	4207' K.B.
Ferron	1380'	20'	2827'
Lower Mancos	1400'	790'	2807'
Dakota	2190'	170'	2017'
Cedar Mountain	2360'	350'	1847'
Morrison	2710'	542'	1497'
Summerville	3252'	158'	955'
Curtis (Fault)	3410' (?)	80'	797'
Entrada	3490'	——	717'
Total Depth	3553'		

There are no wells near enough to the subject well that comparison of the datum points would be meaningful.

A detailed description of the samples of the cuttings from the well from 400' to 3553', Total Depth, is attached hereto.

Oil and Gas Possibilities

The area in general has good possibilities for oil and/or gas production and the subject well had a number of good shows of hydrocarbons. These are discussed above. Unfortunately, the well was so close to the fault zone that the porosity and permeability of the potential reservoir sands were diminished by the introduction of clay minerals and gouge material from the fault zone. A position away from the fault zone and nearer the axis of the Green River Nose could be more favorable. The lenticular sands in the Dakota, Cedar Mountain, and Morrison all had hydrocarbon shows and could be productive in a more favorable position.

There are a number of deeper objectives in the area which have prospects of hydrocarbon production. The Navajo, Shinarump, Moenkopi, Kaibab, Coconino, Hermosa, Paradox, and Madison - Leadville are all potential objectives. Oil seepages are found on the surface along the Little Grand Fault to the south and across the Green River nose. Shallow gas and oil showings were reported in the Ruby No. 1-X State well and in the Marland No. 1 well located on the nose and near the fault. These showings were found in the Morrison, Entrada, Kayenta, Shinarump, Moenkopi, and Coconino. Natural gas and condensate were encountered in the Amerada #1 well in the same area at 5645' in the Paradox Salt section. Shut-in pressures of 2100# to 3000# were reported and the well produced 566 barrels of condensate, 6,120 MCF of gas, and 37,000 barrels of salt water during a 31-day test of the well. The heavy salt brine tended to flood and shut-off the gas and condensate flow.

Conclusion and Recommendation

The results of the #1 State Grn well were very disappointing but served to emphasize the importance and possibilities of the area for hydrocarbon production. Several different gas shows and small volume flows of gas were obtained in the well. These were found in the Ferron, Dakota, Cedar Mountain, and Morrison formations. The potential reservoir sands, however, were tight and full of clay minerals, making them unsuitable for good commercial production. This condition was probably due to the close proximity of the well to a northeast trending fault zone. The well actually crossed the fault at a depth of about 3400' and most of the Curtis section was deleted.

The location of the well on the west flank of the Green River Nose was fairly well established or confirmed by the thin section of Morrison and Summerville sediments found in the well. This indicates that during these depositional periods the area was on or near a positive feature. The continuing shows of gas found in the well also suggests that the area is favorable.

The subject well was quite shallow, 3553' total depth, and was only drilled into the top of the Entrada formation. Farther south, wells on the Green River Nose and near the Little Grand Fault had gas and oil showings, plus some production in the Morrison and Entrada as well as in some deeper and older formations, among which were the Kayenta, Shinarump, Moenkopi, Coconino, Hermosa, and Paradox. Thus some deeper objectives are probably present in the subject area.

The general location of the Kewanee Oil Company acreage block in relation to the possible shelf area between the Paradox and Uinta Basins, its position near the Uncompahgre Fault, its location on the edge of the Green River Nose, the numerous faults in the area which have created a number of different fault blocks with different structural attitudes,

and the number of hydrocarbon showings obtained in the stratigraphic section which was penetrated by the #1 State - Grn well make further work in the area and consideration of the merits of the block highly desirable. It is possible that further study would show that the block should be expanded. Any future tests on the block and area should also consider the deeper objectives and prospects as well as the shallower horizons.

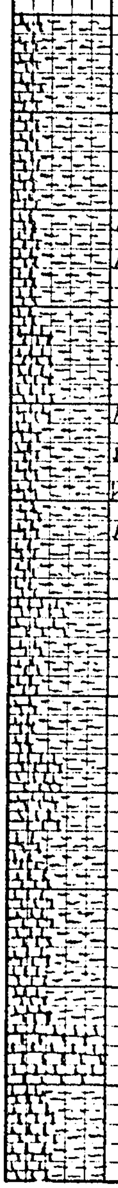
W. Don Quigley

W. Don Quigley
Consulting Geologist
A A P G Cert. #1296

Kewanee Oil Co. #1 State-G... 500'-1000'

Section 17, T 22S, R 16E

Elev: G 4197 ; K.B 4207



400 DK. gry. calc. marine sh.

500' DK. gry. calc. sh. & lt. gry. bent. sh.

DK. gry. calc. mar. sh.

w/ foss. & some brn. xln. lms.

600' DK. gry. calc. bent. sh.

DK. gry. calc. mar. sh.

700' DK. gry. v. lmy. spotted sh. & brn. sucrosy - xln. lms.

DK. gry. calc. sh.

& brn. xln. lms.

800' DK. gry. v. lmy. sh.

DK. gry. spotted lmy. sh. & some brn. xln. lms.

900' DK. brn. xln. lms.

DK. gry. calc. marine sh. + dk. brn. to gry. arg. lms.

1000'

K+E 5 x 5 TO ½ INCH 46 0863
7 X 10 INCHES MADE IN U.S.A.
KEUFFEL & ESSER CO.

POOR COPY

Kenmore Oil Co. #1 State-Dew 1000' - 2000'

1000 DK. gry v calc marine sh. w/ wh lmy spots.
+ brn slty to xln lms.

DK. gry calc mar. sh. w/ lmy spots + brn xln lms.

1100

DK. gry calc. bent. sh.
DK. gry v lmy sh. + brn xln lms.

DK. gry v. lmy sh.

1200 + wh bent calc sh.

+ brn slty to xln lms.

DK. gry v. lmy sh.

1300

Kmf.

Lt brn (gy) calc. gtz ss w/ sub rd to ang. grns - sl st. + good cut - fluor. - could have a little gas.

Gry calc. slty sh.

1400 + lt. brn sdy lms. w/ oil st.

DK. gry v. lmy sh.

+ brn xln lms.

DK. gry lmy to slty sh.

1500 DK. gry lmy sh. + gry arg. slty lms.

DK. gry v calc mica. sh. + lt brn arg lms. + pyr.

DK. gry v calc sh. + pyr.

1600 + some glauconite + gypsum xls.

DK. gry v. calc mica. sh + lt gry arg. lms.

DK. brn slty arg lms - poss gas zone + dk. gry calc. sh. +

DK. gry calc. sh.

Bent. balls

1700 DK. gry calc marine sh.

DK. gry calc mar. sh. - spotted

small (est. - 3 pct.)

BlK calc. (spec xls) marine sh - firm some oil st. - gas flare on conn.

1800

w/ some oil st. + cut

- small gas flare on conn.

1900

DK. gry spotted v. calc. sh. + brn arg + slty lms w/ oil st.

DK. brn slty - arg - xln lms. w/ oil st. + cut - gas on conn.

DK. gry v. calc. sh.

2000

POOR COPY

K+E 5 x 5 TO 1/2 INCH 46 0863
7 X 10 INCHES MADE IN U.S.A.
KEUFFEL & ESSER CO.

Kewanee Oil Company #1 State Gov't Coil 2000' - 3000'

2000

DK gry [illegible] sdy

DK gry mica anhy slst & brn anhy & pyr.

2100

Kd.

DK gry anhy mica shly ss
Lt gry to lt brn fg qtz uncons. ss [illegible] to [illegible] grns - 15/10 [illegible] flare = Good lt blue cut - 400 130 secs

2200

Lt gry v.fg calc bent ss w/ [illegible]
Gry calc slst & sh
DK gry [illegible] slst & sh & brn sdy lms.
DK gry calc sdy slst

2300

+ some blk lms.
DK gry limy slst & sh & gry sdy lms.
Blk slty lms - dk gry limy sh.
DK gry v limy sh & dk brn slty lms.

Kcm

DK gry bent sh & brn slty anhy.
Brn gry anhy & coal [illegible] pyr
DK gry calc bent [illegible] sh

2400

Gry bent sh w/ pyr.
+ gry v.fg bent ss w/ang. grns.
Lt brn gry bent sh & brn slty lms. + some dk bent calc sh
[illegible] [illegible] to [illegible] grns - [illegible]
Lt brn gry bent calc sh - wh vfg calc bent ss w/ dk ch specs & [illegible] + v. [illegible]
Gry calc slty sh & rd brn [illegible] lms.
Gry-grn-brn calc slst & ss.
Gas flare [illegible] 20' [illegible]
+ brn gry lms. w/ ch. Down - 2444 (down 45 min)

2500

Gry slty sh & brn v.fg anhy.
& lt-brn sl calc anhy
Lt gry & calc. v.fg to congl ss w/ lots of ch. frag.
Gry to grn green bent fg. w(calc)
Wh. [illegible] sdy calc & lms.
Gry to grn to rd-brn slst
+ bent sh.
Wh. v.fg to qtzitic ss with bent sh.
Gry to lt gry slty bent sh.

2600

Rd v.fg ss.
Gry bent sl calc sdy sh
Lt gry to rd brn bent slty sh
Rd sh & v.fg sity ss
Lt gry bent - slty sh.

2700

Wh fg bent qtz ss w/ [illegible] grns (v bent) w/sl cut
[illegible] slty cong [illegible] ss w/ rd sh. [illegible] (contains green hsd.) > [illegible] to [illegible]

Jm

Rd slst - gry & pur sh - grn - wh. bent sh.
[illegible] calc bent sh.
[illegible] slst - [illegible]
[illegible] calc slst, bent sh & wh qtzitic ss & pyr.
Rd slst & [illegible] bent sh.
Rd sh & slst

2800

[illegible] bent sh & [illegible]
Hole caving - Has to mud-up
+ [illegible] qtzitic ss & [illegible]
Same wh. [illegible] qtz calc ss & some [illegible] bent sh
Ch. frags & wh. sl calc ss w/ ang grns + looks wet + slumps
[illegible]
Lt & mica bent sh & [illegible] sh.
[illegible] bent [illegible] & slst - some brn [illegible] mica ss
+ same [illegible] frosted ss

2900

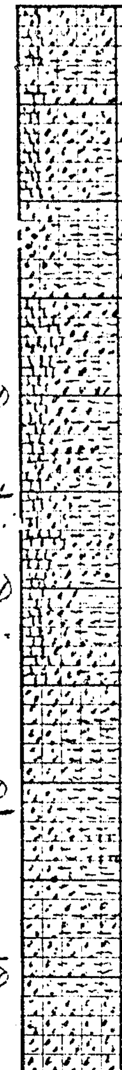
[illegible] gry mica slst w/pyr.
+ same ch fg [illegible]
Ch. fg to mg qtz (sl calc) friable ss w/[illegible] [illegible] grns + no show

White chlt & [illegible] qtzitic ss & bent sh
[illegible] slst & sh & sl calc grn qtzitic
White [illegible] fg [illegible] friable ss (sl calc)
+ gry [illegible] slst

3000'

POOR COPY

Kewanee Oil Co. #1 State [illegible] 3000' to



3000 Lt brn to [illegible] kaol [illegible] ss & gy sh [illegible] lms - No shows

b Lt gry calc [illegible] ss & lt gy to [illegible] bent sh.

b Gry [illegible] bent sh. lt gy slst & silic sh

b [illegible] to [illegible] ss w/ [illegible] to [illegible] gns - Same [illegible]

b [illegible] - sl. lt brn st.

b Wh to lt brn fg to mg calc [illegible] ss & bent - sl. [illegible] (mud appears glossy)

3100 Grn & wh slst & sh & bent.

b Grn & wh silic sh & slst & some qtzic wh ss.

b Rd, grn & gy bent sh & slst & red slst.

Rd brn [illegible] ss [illegible] silic sh & slst.

Rd-brn calc slst & ss

& some [illegible] brn xln lms.

b & some [illegible] bent sh & wh to [illegible] vfg friable ss.

b Grn to lt blue silic sh - gry [illegible] calc ss - & qtzic ss.

3200 b Grn, red, gry calc silic sh & slst & wh [illegible] vfg ss & bent sh.

b V [illegible] silic slst & ss & [illegible] bent sh.

Js & calc

Δ Wh, lt gry, lt grn, red & pink calc silic sh & slst, & ss, w/ [illegible]

Δ Lt gry grn [illegible] vfg ss & gry to wh spotted xln lms.

Δ Grn & grn silic sh.

3300 Lt gry calc [illegible] slst; [illegible] slst; gry-grn silic sh & some gry ss

Δ Lt gry to wh mg friable calc ss w/ [illegible] grns; gry-grn silic sh & slst (glauc.)

As Above & some [illegible]

[illegible] to wh [illegible] - some wh [illegible] qtzic ss.

[illegible] to wh vfg [illegible] qtzic ss [illegible]

Δ & some [illegible] slst.

Δ [illegible] red slst.

& [illegible] sh slst & blk [illegible] sh.

Fault 3400 & [illegible] ss w/ [illegible] specks & [illegible] silic [illegible] sh.

Jcu Mottled [illegible] silic sh - [illegible] slst - [illegible] slst & [illegible] waxy sh (Vermillion ?)

& Je Reddish [illegible] w/ slst [illegible] ss - [illegible] waxy sh - gry [illegible] lms - grn sh - rd slst.

Rd-brn vfg w/ slst ss & purple gry slst & sh w/ slickensides

Rd-brn hd vfg w/ slst ss & purple slst.

3500 & grn-gry waxy silic hd sh

Je Reddish to pk fg to mg v friable w/ orange & blk specks

Orange to wh to frosted fg-mg qtz ss w/ [illegible] grns -

3600

3700

3800

3900

4000

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

2. NAME OF OPERATOR: Kewanee Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 2239, Tulsa, Okla. 74101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1939' FSL & 660' FWL Sec. 17-20S-16E, Emery County, Utah

5. LEASE DESIGNATION AND SERIAL NO.: 29065A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: ST GRN

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 17-20S-16E

14. PERMIT NO.: 4301530021

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4197 Ground Level

12. COUNTY OR PARISH: Emery

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	X	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Completed logging @ 1:30 a.m. 8-17-74. Propose to plug and abandon as follows:

3540' - 45 sx
2939' - 70 sx
2235 - 25 sx
1419 - 25 sx
375 - 25 sx
marker - 10 sx

Plugged on verbal approval from Utah Oil & Gas Commission.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: Dec. 29, 1975
BY: Patrick L. Driscoll

18. I hereby certify that the foregoing is true and correct

SIGNED Lena B McDevitt TITLE Administrative Manager DATE 12-22-75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

2. NAME OF OPERATOR: KEWANEE OIL COMPANY

3. ADDRESS OF OPERATOR: P. O. Box 2239, Tulsa, Okla. 74101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1939' FSL & 660' FWL Sec. 17-20S-16E, Emery County, Utah

5. LEASE DESIGNATION AND SERIAL NO.: 29065A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: GRN

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 17-20S-16E

14. PERMIT NO.: 4301530021

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4197' Ground Level

12. COUNTY OR PARISH: Emery

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other)			☐	(Other)			☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Drilled to TD 3553'. Completed logging at 1:30 a.m. 8-17-74. Plugged and Abondoned on Verbal Permission from Utah Oil & Gas Commission as follows:

Halliburton Oil Well Cementing Co. Pumped Cement Plus As Follows:

Plug #1	3550-3350'	45 Sacks (Across Entrada Formation)
Plug #2	2950-2650'	70 Sacks (Across Morrison & Cedar Mtn Sands)
Plug #3	2250-2150'	25 Sacks (Across Dakota Formation)
Plug #4	1450-1350'	25 Sacks (Across Ferron Sand)
Plug #5	375- 275'	25 Sacks (Across Bottom of Surface Casing)
Plug #6	In Top of Surface Casing - 5 Sacks with well marker.	

Plugged and Abandoned 8-17-74.

18. I hereby certify that the foregoing is true and correct

SIGNED Sam B McMatt TITLE Administrative Manager DATE 12-22-75.

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGCC-3

12

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: KEWANEE OIL COMPANY

3. ADDRESS OF OPERATOR: P. O. Box 2239, Tulsa, Oklahoma 74101

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1939'FSL & 660' FWL
At top prod. interval reported below: Same
At total depth: Same

5. LEASE DESIGNATION AND SERIAL NO.: 29065A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: GRN

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 17-20S-16E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
20279 / 43015~~30021~~	6-19-74	Emery	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8-3-74	8-17-74		4197' G.L.	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
3553			→	0-3553'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: None

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual Ind.-LateroLog, Comp. Neutron-Formation Density & Gamma Ray-Neutron

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24	330.10	12 1/4	240 SX	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
None - Dry Hole		

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Sam B McNatt TITLE Administrative Manager DATE 12-22-75

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
FERRON	1380	Same
DAKOTA	2190	Same
CEDAR MOUNTAIN	2360	Same
MORRISON	2714	Same
SALT WASH	2900	Same
SUMMERVILLE	3252	Same
CURTIS	3410	Same
ENTRADA	3490	Same

United States Department of the Interior
GEOLOGICAL SURVEY
Conservation Division
8426 Federal Building
Salt Lake City, Utah 84138

December 19, 1975

Mr. J. D. Kenworthy
Northern Region Superintendent
Kewanee Oil Company
P.O. Box 22239
Tulsa, Oklahoma 74101

660' FWL
1939' FSL

Re: ~~Federal~~ State 6RN Well No. 1
Approx. C. NW/4 Sec. 17-20S-16E
Wildcat-Emery Co., Utah
Oil and Gas Lease U-23958-A

Dear Mr. Kenworthy:

In our telecon December 18, 1975, we discussed the status of the referenced well. This call originated from this office based on a report from the Bureau of Land Management, Price, Utah the same date. As stated, the report indicated: (1) The well casing was not sealed at the surface, (2) the rathole and mousehole had not been filled-in and (3) the drill site needed general cleanup.

Our files contain an approved Application for Permit to Drill this well 1445 feet NFL and 1279 feet FWL section 17, T20S, R16E, SLB&M. This application was approved July 20, 1974.

This location was moved and actually drilled, as stated in our conversation and according to the State of Utah, Oil, Gas and Mining Conservation Commission records, at 1939 feet FSL and 660 feet FWL of the said Section 17. This location falls on a State mineral lease. The move was necessitated because BLM stipulations, restrictions, and requirements for the drilling of this well on the Federal lease, in your opinion, made the proposed site unfavorable for the operations. Access to the site was refused. Our files do not contain documentation of this refusal but do contain the stipulations from BLM.

Approval of the Application for Permit to Drill this well is rescinded without prejudice. In the event you should desire to again drill at this location, please submit a new Application for Permit to Drill. As a suggestion, you should request that the approved Application for Permit to Drill be rescinded when there will be no activity under the Application. This would remove any outstanding approved activity pending under your statewide bond.

Thank you for your assistance in clearing up this matter. The oral approval to plug abandon shows the well in SW/4 NW/4 Section 17. This should read NW/4 SW/4 Section 17.

Sincerely yours,

E. W. Guynn
District Engineer

cc: Oil, Gas & Mining Conservation Commission, Utah

bcc: Well File
BLM, Price
O&GS, NRMA, Casper
USGS, Vernal

FORM OGC-8-X
File in Quadruplicate

4301530021

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number GRN #1

Operator KEWANEE OIL COMPANY

Address P. O. Box 2239, Tulsa, Oklahoma 74101

Contractor Pease Drilling Company

Address Grand Junction, Colorado

Location ____ 1/4, SW 1/4; Sec. 17 ; T. 20 S; R. 16 E:, Emery County.

Water Sands:

	Depth: From -	To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	2698	2710	Filled up to 500' from Surface	Unknown
2.				
3.				
4.				
5.				

(Continue on Reverse Side of Necessary)

Formation Tops:

ELEV.	4197 G.L.		
FERRON	1380	SUMMERVILLE	3252
DAKOTA	2190	CURTIS	3410
CEDAR MTN	2360	ENTRADA	3490
MORRISON	2714		
SALT WASH	2900		

NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

Kewanee Oil Co.
Utah St. Govt #1
NE SW Sec. 17, T. 20S, R 16E
Taken on field inspection:
April, 1976

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 30, 1986

TO: Well File

FROM: Mary Alice Peterson

RE: API Number for State GRN #1 -- 20S 16E sec. 17

This well was originally assigned 43-015-30021 in the file and 30020 on the card. However the Black Canyon Fed. #1-31 (16S 6E sec. 31) was assigned the 30020 number first and the USA Thomas Waslh Fed. #1 (19S 15E sec. 14) was first assigned the 30021 number. The Federal GRN #1 was also assigned the 30020 number. We are going to leave the wells that are on our official list the same (The Black Canyon Fed. #1-31 and the USA Thomas Fed. #1) and change the API numbers for the State GRN # 1 and the Federal GRN #1 because these two wells do not show up on our official list and would be easiest to change.)The new API number for the State GRN #1 well is 43-015-20279. The new number for the Fed. GRN #1 will be 43-015-20278.

map
0176S 32